

TABLE 2.—Free-air resultant winds (meters per second) based on pilot-balloon observations made near 7 a. m. (E. S. T.) during September, 1932

[Wind from North=360° East=90° etc.]

Altitude (meters) m. s. l.	Albuquerque, N. Mex. (1,528 meters)		Atlanta, Ga. (309 meters)		Bismarck, N. Dak. (518 meters)		Brownsville, Tex. (12 meters)		Burlington, Vt. (132 meters)		Cheyenne, Wyo. (1,873 meters)		Chicago, Ill. (195 meters)		Cleveland, Ohio (245 meters)		Dallas, Tex. (154 meters)		Havre, Mont. (762 meters)		Jacksonville, Fla. (14 meters)		Key West, Fla. (11 meters)	
	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
Surface.....	56	1.2	28	1.2	208	0.5	339	0.6	200	1.3	293	2.7	254	0.7	192	0.4	59	1.0	268	1.6	38	0.5	98	1.4
500.....			73	4.0			92	2.3	230	3.3			309	1.2	327	1.4	123	4.3			97	3.8	99	2.8
1,000.....			87	4.1	243	5.2	90	3.0	266	3.0			292	2.4	304	3.3	127	3.4	257	4.0	93	3.7	115	2.9
1,500.....			89	2.7	273	5.3	76	2.2	298	5.5			288	4.1	300	3.9	119	1.9	282	5.6	78	2.6	113	1.3
2,000.....	143	1.7	86	1.8	279	6.8	31	2.1	309	6.7	288	3.6	301	4.4	290	5.0	84	1.1	285	5.6	49	1.4	116	0.7
2,500.....	249	1.1	20	0.5	278	9.1	29	2.7	318	8.2	299	3.9	282	6.9	283	5.3	79	1.3	286	5.6	37	0.8	95	0.3
3,000.....	309	1.9	356	0.7	284	9.9	28	3.3	312	9.2	285	6.2	233	5.7	274	6.0	64	2.0	290	5.6	23	0.8	130	0.4
4,000.....	323	3.0	302	2.9	288	12.3	326	0.3	303	9.9	287	8.7			275	4.9	39	2.3	292	5.6	293	1.8	108	0.3
5,000.....	315	3.6	295	6.5			96	1.7			285	8.7			277	4.9	302	1.8	293	5.4	282	2.2	357	0.6

	Los Angeles, Calif. (217 meters)		Medford, Oreg. (410 meters)		Memphis, Tenn. (85 meters)		New Orleans, La. (25 meters)		Oakland, Calif. (8 meters)		Oklahoma, City, Okla. (402 meters)		Omaha, Nebr. (306 meters)		Phoenix, Ariz. (356 meters)		Sale Lake City, Utah (1,294 meters)		Sault Ste. Marie, Mich. (198 meters)		Seattle, Wash. (14 meters)		Washington, D. C. (10 meters)	
	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity	Direction	Velocity
Surface.....	56	0.3	179	0.4	31	1.0	40	2.0	335	0.7	93	1.3	160	1.4	116	1.8	141	3.1	348	0.2	158	0.2	322	1.1
500.....	95	0.2	284	0.4	77	4.4	69	4.4	313	0.9	150	1.9	177	3.0	114	1.7			273	2.5	7	1.9	312	2.4
1,000.....	21	1.6	304	0.6	58	2.5	74	2.7	343	3.8	202	3.2	218	3.7	219	0.6			292	2.3	10	2.3	334	2.9
1,500.....	281	1.0	81	1.1	30	2.1	50	2.3	352	2.0	201	2.9	290	3.9	263	1.2	148	3.5	300	7.0	327	1.0	330	3.0
2,000.....	220	3.3	82	0.8	6	2.9	8	2.9	306	1.3	182	1.5	270	5.4	279	0.8	180	1.6	285	6.3	308	1.7	312	2.9
2,500.....	166	3.8	245	1.3	356	3.9	360	4.6	277	1.3	187	0.6	273	6.3	300	0.7	230	1.5	282	6.6	293	2.8	302	5.4
3,000.....	146	6.1	262	2.8	346	1.6	338	5.3	285	1.7	53	0.1	300	6.0	57	0.6	275	6.5	277	6.8	298	4.8	295	2.3
4,000.....			284	3.5	21	3.1					2	1.6	286	8.2	121	2.4	276	7.2	267	8.6			270	2.9

RIVERS AND FLOODS

By RICHMOND T. ZOCH

[River and Flood Division, Montrose W. Hayes in charge]

Table of flood stages in September, 1932

Floods occurred in the following rivers during the month of September: The Tombigbee in Alabama, the Solomon and Smoky Hill in Kansas, the West Fork, Trinity, Nueces, and Rio Grande Rivers in Texas, and the Colorado in Arizona. Since some of the rivers in Texas reached flood stage in the latter part of the month and continued into September the floods of Texas will be discussed in a later issue of the REVIEW.

The table herewith gives the usual data for all the overflows, except those in Texas. No damage resulted from any of these floods.

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
EAST GULF OF MEXICO DRAINAGE					
Tombigbee: Lock No. 3, Ala.....	Feet 33	7	7	Feet 33.0	7
MISSISSIPPI SYSTEM					
Missouri Basin					
Solomon: Beloit, Kans.....	18	13	13	18.5	13
Smoky Hill: Lindsborg, Kans.....	21	15	16	22.4	15
GULF OF CALIFORNIA DRAINAGE					
Colorado: Parker, Ariz.....	7	1	1	9.0	1